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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/612,043	07/03/2003	Fumio Tanno	0171-0987P	4271
2292	7590 12/01/2005		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			KALAFUT, STEPHEN J	
PO BOX 747	RCH, VA 22040-0747		ART UNIT	PAPER NUMBER
TALLS CHOI	(CII, VA 22040-0747		1745	

DATE MAILED: 12/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			*
	Application No.	Applicant(s)	
	10/612,043	TANNO, FUMIO	
Office Action Summary	Examiner	Art Unit	
	Stephen J. Kalafut	1745	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address -	-
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by start Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a coord will apply and will expire SIX (6) MON tute, cause the application to become Ale	CATION. reply be timely filed ITHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	·		
2a) This action is FINAL . 2b) ⊠ TI	his action is non-final.		
3) Since this application is in condition for allow	vance except for formal matt	ers, prosecution as to the merits	is
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 1-3 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Exami 10) ☐ The drawing(s) filed on 03 July 2003 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) ☐ The oath or declaration is objected to by the	a)⊠ accepted or b)⊡ object the drawing(s) be held in abeyar ection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.12	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreignation a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a light	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)	A) [] (max.mir.)	Nummon: (DTO 443)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(Summary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 29 July 2003.	5) Notice of I	nformal Patent Application (PTO-152)	

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Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "high" in claim 1 is a relative term which renders the claim indefinite. The term "high degree of graphitization" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Claims 2 and 3 depend from claim 1, and would likewise be indefinite.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-3 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-3, respectively, of copending Application No. 10/407,232. Although the conflicting claims are not identical, they are not patentably

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distinct from each other because the present claims differ only reciting a "high degree of graphitization" for the carbon, which falls within the "graphitization" recited by the claims of Serial No. 10/407,232. Thus, the present claims, to the extent that they are understood, would represent an optimization over the claims of Serial No. 10/407,232, based on the effect of the graphite content of the carbon on mechanical properties and electrical conductivity.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tanno (US 6,890,678) discloses a fuel cell separator made of graphite, bisphenol A, another phenolic resin, and polycarbodiimide. Saito *et al.* (US 6,461,755) disclose a conposition including carbon, a carbodiimide, and a liquid crystal polymer. Korb *et al.* (US 4,668,496) disclose a composition which includes carbon, novolac resin and resol resin. Emanuelson *et al.* (US 4,301,222) disclose a fuel cell separator made by mixing graphite and resol or novolac, followed by carbonization. Mizuno (US 2002/0004156) discloses a fuel cell separator made with a resin such as cresol novolac. Hasegawa *et al.* (US 6746792) disclose a fuel cell separator made with an oxazine compound, with a polymer such as novolac or polycarbodiimide, and is the equivalent of JP 2002-260,682, cited by applicants.

The disclosure is objected to because of the following informalities: The drawing numeral 4 is not found in the specification. On page 2, line 2, the term "el ctrode", which appears twice, appears to be "electrode" without the second "e". Likewise, "benzoxazin" (page

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5, line 2), "exampl s" (page 6, line 1), "est rs" (page 6, line 2), "th" (page 8, line 2) and "c ll" (page 9, line 1) all appear to be missing an "e". Appropriate correction is required.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Kalafut whose telephone number is 571-272-1286. The examiner can normally be reached on Mon-Fri 8:00 am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

sjk